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APPLICATION NO	).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,015	10/633,015 07/31/2003		Elena Pavlovskaia	018563-002920US	4730
46718	7590	09/22/2005		EXAMINER	
		D TOWNSEND AN	MANAHAN, TODD E		
		ERO CENTER, EIGF CA 94111-3834	TTH FLOOR	ART UNIT PAPER NUMBER	
				3732	
				DATE MAILED: 09/22/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
088 4-4	· ·	10/633,015	PAVLOVSKAIA	ET AL.				
Office Action S	Summary	Examiner	Art Unit					
		Todd E. Manahan	3732					
The MAILING DATE of Period for Reply	of this communication app	ears on the cover sheet w	vith the correspondence a	address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to commu	unication(s) filed on <u>18 Ju</u>	ly 2005.						
2a)⊠ This action is <b>FINAL</b> .	·							
3) Since this application	application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5) ☐ Claim(s) is/are 6) ☑ Claim(s) <u>1-31</u> is/are re 7) ☐ Claim(s) is/are	n(s) is/are withdrav allowed. ejected.	·						
Application Papers								
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119		•						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)  1) Notice of References Cited (PTC 2) Notice of Draftsperson's Patent Date Notice of Draftsperson's Patent Date Notice of Draftsperson's Patent Date Notice	Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (P 	TO-152)				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-31 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Chishti et al. (PCT Publication WO 98/58596 cited by applicant).

Chishti et al. disclose a computer implemented method, system, computer program on a tangible medium and computer system of separating a tooth from an adjacent structure. The step of modeling the surface of the crown would be inherently performed in the method in order to view the 3-D image of the teeth (page 17, lines 16-18) as well as when the crown and gingival are separated from the rest of the 3-d model (page 18, 24-26) or when the crowns are cut off (page 18, lines 30-32). The adjacent structure may include the extraneous gum area so as to leave only the tooth which increases data processing speed and enhances visual display (see page 17, line 16 through page 18, line 34). The method comprises defining a cutting surface using cubic B-spline curves and applying the cutting surface between the tooth and the structure to separate the tooth from the structure. Regarding clam 16, see page 18, lines 30-34. Regarding claim 24, page 22, lines 5 and 6 and page 28, line 37 through page 29, line 4, which disclose modeling the tooth root.

## Conclusion

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd E. Manahan whose telephone number is 571 272- 4713. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571 273-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3732

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Todd E. Manahan Primary Examiner

Art Unit 3732

T.E. Manahan 20 September 2005